



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/767,615	01/30/2004	Hidehiko Ogawa	P24497	5644	
7055 7	7590 11/29/2004		EXAMINER		
GREENBLUM & BERNSTEIN, P.L.C.			LEE, TOMMY D		
RESTON, VA	O CLARKE PLACE 20191		ART UNIT	PAPER NUMBER	
ŕ			2624		
			DATE MAILED: 11/29/2004	DATE MAILED: 11/29/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

## Disposition of Claims ### Apart This action is non-final. 10/767,615 Claim(s) 1-14 is/are pending in the application. ### Apart This action is non-final. 3 Claim(s) 1-14 is/are pending in the application. ### Apart Claim(s) 1-14 is/are pending in the application. ### Apart Claim(s) 1-14 is/are pending in the application. ### Apart Claim(s) 1-14 is/are objected to by the Examiner. ### Apart Claim(s) 1-12 and 37-44 is/are objected to by the Examiner. #### Apart Claim(s) 1-16 and 29-3 displace to the third is pending the order of the apart 10/20 displace to the pending in the application is objected to by the Examiner. ##### Apart Claim(s) 1-14 is/are objected to by the Examiner. ##### Apart Claim(s) 1-15 and 29-31 size objected to by the Examiner. ###################################		Application No.	Applicant(s)	
## Examiner				
The MALING DATE of this communication appears on the cover sheet with the correspondence address ¬ Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION. Leateness of the mery be switched used the provisions of 37 CFR 113(d). In no event, horever, may a reply be linely filed Leateness of the mery be switched used the provisions of 37 CFR 113(d). In no event, horever, may a reply be linely filed 1 the period for reply specified above it was should be presented by period with experience of the provision of the above claim(s) Sistem this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4 S Claim(s) 1-44 is/are pending in the application. 4 A) Of the above claim(s) is/are allowed. 5 Siare this application is objected to be accordance of the provision of	Office Action Summary		<u> </u>	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ② MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Ententieve of time may be without work the provision of \$7 CP41 130(a). In revent, however, may a reply be timely fitted to the provision of the period for reply and provided under the provision of \$7 CP41 130(a). In revent, however, may a reply be timely fitted to the period for reply and specified above, the meanine of \$7 CP41 130(a). In revent, however, may a reply be timely fitted to the period for reply and the period for reply and leading the translation of the provision of \$7 CP41 130(a). In revent, however, may a reply be timely fitted the period for reply and the period of the				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE § MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Fatherisms of them myby be widned words the procession of 3° CFR1.18(s) in no event, horevor, may a reply be timely fixed. Fatherisms of them myby be widned words the procession of 3° CFR1.18(s) in no event, horevor, may a reply be timely fixed. Fatherisms of them myby appeals where the set in extended period widness of the period for reply specified above is less than thirty (30) days, a reply within the subtilety principal value of the period for reply and will replace (15) (MONTHS from the making date of this communication of the period	The MAILING DATE of this communi			:ss
THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be waited under the provisions of 3 CFR 1 (30g). In on event, however, may a reply be timely filed after 5X (6) MCN 175 from the mailing date of this communication of 3 CFR 1 (30g). In on event, however, may a reply be timely filed after 5X (6) MCN 175 from the mailing date of this communication of the provision of	Period for Reply			
1) Responsive to communication(s) filed on	THE MAILING DATE OF THIS COMMUNI - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this comm - If the period for reply specified above is less than thirty (30) - If NO period for reply is specified above, the maximum state - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months a	CATION. of 37 CFR 1.136(a). In no event, however, may a unication.)) days, a reply within the statutory minimum of thin tutory period will apply and will expire SIX (6) MOI will, by statute, cause the application to become A	reply be timely filed rty (30) days will be considered timely. NTHS from the mailing date of this comm BANDONED (35 U.S.C. § 133).	nunication.
2a) This action is FINAL. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-15 and 29-34 is/are allowed. 6) Claim(s) 16-20,27.28.35.36.43 and 44 is/are rejected. 7) Claim(s) 21-28 and 37-44 is/are objected to. 8) Claim(s) 21-28 and 37-44 is/are objected to. 8) Claim(s) 21-28 and 37-44 is/are objected to. 8) Claim(s) 21-28 and 37-44 is/are objected to. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 30 January 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No. 09/461,402. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 3) Notice of Interpasson's Patent Drawing Review (PTO-948) 3) Notice of Informal Patent Application (PTO-152)	Status			
2a) This action is FINAL. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-41 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-15 and 29-34 is/are allowed. 6) Claim(s) 16-20,27.28.35,36.43 and 44 is/are rejected. 7) Claim(s) 21-28 and 37-44 is/are objected to. 8) Claim(s) 21-28 and 37-44 is/are objected to. 8) Claim(s) 21-28 and 37-44 is/are objected to. 8) Claim(s) 21-28 and 37-44 is/are objected to. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 30 January 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received in Application No. 09/461,402. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Informal Patent Application (PTO-145) Figure Notice of Informal Patent Application (PTO-152)	1) Responsive to communication(s) file	d on		
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-15 and 29-34 is/are allowed. 6) Claim(s) 16-20,27,28,35,36,43 and 44 is/are rejected. 7) Claim(s) 21-28 and 37-44 is/are objected to. 8) Claim(s) 21-28 and 37-44 is/are objected to. 9) The specification is objected to by the Examiner. 4Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filled on 30 January 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/461,402. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Internation Discolauser Statement(s) (PTO-143) Paper No(s)/Mail Date. Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)				
Algorithm of Claims 4) Claim(s) 1-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-15 and 29-34 is/are allowed. 6) Claim(s) 16-20.27.28.35.36.43 and 44 is/are rejected. 7) Claim(s) 21-28 and 37-44 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 30 January 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/461,402. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 1) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Discolours Estatement(s) (PTO-1449 or PTO/58/808) 5) Notice of Informal Patent Application (PTO-152)	3) Since this application is in condition	for allowance except for formal mat	ters, prosecution as to the m	erits is
4) Claim(s) 1-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-15 and 29-34 is/are allowed. 6) Claim(s) 16-20,27,28,35,36,43 and 44 is/are rejected. 7) Claim(s) 21-28 and 37-44 is/are objected to. 8) Claim(s) 21-28 and 37-44 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 30 January 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/461,402. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892)	closed in accordance with the practic	ce under <i>Ex parte Quayle</i> , 1935 C.[). 11, 453 O.G. 213.	
4) Claim(s) 1-44 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-15 and 29-34 is/are allowed. 6) Claim(s) 16-20,27,28,35,36,43 and 44 is/are rejected. 7) Claim(s) 21-28 and 37-44 is/are objected to. 8) Claim(s) 21-28 and 37-44 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 30 January 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/461,402. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892)	Disposition of Claims			,
4a) Of the above claim(s) is/are withdrawn from consideration. 5) □ Claim(s) 1-15 and 29-34 is/are allowed. 6) □ Claim(s) 16-20,27,28,35,36,43 and 44 is/are rejected. 7) □ Claim(s) 21-28 and 37-44 is/are objected to. 8) □ Claim(s) are subject to restriction and/or election requirement. Application Papers 9) □ The specification is objected to by the Examiner. 10) □ The drawing(s) filed on 30 January 2004 is/are: a) □ accepted or b) □ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) □ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) □ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) □ All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents have been received. 2. □ Certified copies of the priority documents have been received in Application No. 09/461,402. 3. □ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) □ Notice of References Cited (PTO-892) 1) □ Notice of Portspersor's Patent Paywing Review (PTO-948) 3) □ International Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) □ Notice of Informal Patent Application (PTO-152)		polication		
5) ☐ Claim(s) 1-15 and 29-34 is/are allowed. 6) ☐ Claim(s) 16-20,27,28,35,36,43 and 44 is/are rejected. 7) ☐ Claim(s) 21-28 and 37-44 is/are objected to. 8) ☐ Claim(s) 21-28 and 37-44 is/are objected to. 8) ☐ Claim(s) 21-28 and 37-44 is/are objected to. 8) ☐ Claim(s) 21-28 and 37-44 is/are objected to. 8) ☐ Claim(s) 21-28 and 37-44 is/are objected to. 8) ☐ Claim(s) 21-28 and 37-44 is/are objected to. 8) ☐ Claim(s) 21-28 and 37-44 is/are objected to. 8) ☐ Claim(s) 21-28 and 37-44 is/are objected to. 8) ☐ Claim(s) 21-28 and 37-44 is/are objected to. 8) ☐ Claim(s) 21-28 and 37-44 is/are objected to. 8) ☐ Claim(s) 21-28 and 37-44 is/are objected to. 8) ☐ Claim(s) 21-28 and 37-44 is/are objected to. 8) ☐ Claim(s) 21-28 and 37-44 is/are objected to. 8) ☐ Claim(s) 21-28 and 37-44 is/are objected to. 8) ☐ Check of Claim(s) 21-28 and 37-44 is/are objected to by the Examiner. 10) ☐ The drawing(s) filed on 30 January 2004 is/are: a) ☐ Accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No. 09/461,402. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. Altachment(s) 1) ☐ Notice of Patestepsen's Patent Drawing Review (PTO-948) 3 ☐ Paper No(s)/Mail Date. ☐ Paper No(s)/Mail Date. ☐ Discour				
6) Claim(s) 16-20.27,28.35,36,43 and 44 is/are rejected. 7) Claim(s) 21-28 and 37-44 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 30 January 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1.	_ '			
7) Claim(s) 21-28 and 37-44 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 30 January 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1.				
Application Papers 9) ☐ The specification is objected to by the Examiner. 10) ☒ The drawing(s) filed on 30 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☒ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☒ Certified copies of the priority documents have been received in Application No. 09/461,402. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) □ Notice of Torftsperson's Patent Drawing Review (PTO-948) 3) ☒ Interview Summary (PTO-413) Paper No(s)/Mail Date.				~ .
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 30 January 2004 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☑ Certified copies of the priority documents have been received in Application No. 09/461,402. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) □ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)				
9) ☐ The specification is objected to by the Examiner. 10) ☑ The drawing(s) filed on 30 January 2004 is/are: a) ☑ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☑ Certified copies of the priority documents have been received in Application No. 09/461,402. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) □ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	Application Papers			
10) ☐ The drawing(s) filed on 30 January 2004 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No. 09/461,402. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 1) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)		Examiner		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some column None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/461,402. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Interview Summary (PTO-413) Paper No(s)/Mail Date. Paper No(s)/Mail Date. Paper No(s)/Mail Date. Description Disclosure Statement(s) (PTO-1449 or PTO/SB/08)			objected to by the Examiner.	
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/461,402. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/5B/08)				
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☒ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☒ Certified copies of the priority documents have been received in Application No. 09/461,402. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)				1.121(d).
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/461,402. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		•	· · · · · · · · · · · · · · · · · · ·	
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 09/461,402. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Priority under 25 H.S.C. \$ 440	*	·	
a) ⊠ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☒ Certified copies of the priority documents have been received in Application No. 09/461,402. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	<u> </u>	for foreign priority under 25 H.C.C.	\$ 110(a) (d) or (f)	
1. ☐ Certified copies of the priority documents have been received. 2. ☒ Certified copies of the priority documents have been received in Application No. 09/461,402. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☒ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	_	or foreign priority under 35 0.5.C.	3 119(a)-(u) or (1).	
2. ☐ Certified copies of the priority documents have been received in Application No. 09/461,402. 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☐ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)	, ,	documents have been received		
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) ☑ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) ☐ Notice of Informal Patent Application (PTO-152)			Application No. 09/461 402	
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) * See the attached detailed Office action for a list of the certified copies not received. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)			• •	ane
* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) * See the attached detailed Office action for a list of the certified copies not received. 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)	•	•	received in and readonal of	190
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)	• •	, , , , , , , , , , , , , , , , , , , ,	t received.	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)	<u> </u>		O (DTO 440)	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 5) Notice of Informal Patent Application (PTO-152)				
	3) Information Disclosure Statement(s) (PTO-1449 or	PTO/SB/08) 5) Notice of	Informal Patent Application (PTO-15	52)

Application/Control Number: 10/767,615 Page 2

Art Unit: 2624

DETAILED ACTION

Priority

- 1. Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 09/461,402, filed on December 15, 1999. **Specification**
- 2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

3. Claims 21-28 and 37-44 are objected to under 37 CFR 1.75 as being a substantial duplicate of claims 1, 5, 6, 10, 11, 15, 16, 20 and 29-36, respectively. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 2624

5. Claims 16-20, 27, 28, 35, 36, 43 and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 5,798,845 (Baek et al.) in view of U.S. Patent 5,862,202 (Bashoura et al.).

Regarding claims 16, 17 and 27, Baek et al. disclose an image data communication apparatus connected to an image data source and a network, and transmitting image data to a receiving apparatus via the network, the image data communication apparatus comprising: a memory configured to store information regarding an identification of at least one user of the image data communication apparatus and a mail address of the at least one user (column 4, lines 36-43); a panel section configured to select the information regarding an identification of at least one user and the mail address of the at least one user stored in the memory (column 4, lines 26-35; column 4, line 59 – column 5, line 10); and a controller configured to set the information regarding the identification of the user selected by the panel section, into the mail message (column 5, lines 2-10). The image data source comprises a scanner connected to the image data communication apparatus (column 4, lines 7-9).

Baek et al. do not disclose a transmitter configured to transmit image data attached to an e-mail, the e-mail including a mail from command and a mail message. Bashoura et al. disclose a fax routing system capable of transmitting image data attached to an e-mail (column 4, line 66 – column 5, line 6). Note that Fig. 4 shows a table for storing e-mail addresses as well as telephone numbers and IP addresses of potential recipients of a fax message.

Art Unit: 2624

The fax routing system disclosed in Bashoura et al. enables a user to transmit image data via the Internet as well as through telephone lines as in a conventional fax transmission, thereby enabling reception at more destinations. Therefore, it would have been obvious for one of ordinary skill in the art to modify the teaching of Baek et al. by providing a system for transmitting documents attached to e-mail, as disclosed in Bashoura et al.

Regarding claims 18 and 19, neither Baek et al. nor Bashoura et al. disclose a panel section comprising a personal computer connected to the image data communication apparatus, wherein the personal computer displays an HTML document for storing the information regarding the identification of the user and the mail address of the user in the memory. However, the concept of operating a fax machine, or other office machines such as printers and copiers, using operation keys from a personal computer is well known in the art for allowing tasks to be performed from a central location, thereby saving a user the trouble of having to go to a fax machine remotely located from his or her office. Therefore, it would have been obvious for one of ordinary skill in the art to modify the combined teachings of Baek et al. and Bashoura et al. by providing a personal computer for controlling the fax machine. As is known in the art, personal computers are capable of displaying HTML documents for storing information, in general.

Regarding claims 20 and 28, Bashoura et al. disclose converting image data attached to the e-mail into a format for e-mail transmission (column 4, lines 44-48; column 4, line 66 – column 5, line 3). As mentioned above, the fax routing system

Art Unit: 2624

disclosed in Bashoura et al. enables a user to transmit image data via the Internet as well as through telephone lines as in a conventional fax transmission, thereby enabling reception at more destinations. Therefore, it would have been obvious for one of ordinary skill in the art to modify the teaching of Baek et al. by providing a system for transmitting documents attached to e-mail, as disclosed in Bashoura et al.

Claims 35, 36, 43 and 44 are method claims corresponding to above-rejected apparatus claims 16, 20, 27 and 28, respectively. The method steps are performed by the facsimile system disclosed in Baek et al. in view of Bashoura et al., as set forth above.

Allowable Subject Matter

- 6. Claims 1-15 and 29-34 are allowed.
- 7. The following is a statement of reasons for the indication of allowable subject matter: No prior art has been found to disclose or suggest "a controller configured to set the information regarding the identification of the user and the mail address of the user selected by the panel section, into the mail message of the e-mail to which the image data is attached, whereby opening, at the receiving apparatus, of the attached image data is not required to determine the information regarding the identification of the user, and the mail address of the user set into the mail message of the e-mail can be utilized as a destination for a reply to the e-mail, the reply being sent from the receiving apparatus," as recited in base claim 1 and similarly recited in base 29; or "a controller configured to set the information regarding the identification of the user and the mail address of the user selected by the panel section, into the mail message of the

Art Unit: 2624

e-mail to which the image data is attached, whereby opening, at the receiving apparatus, of the attached image data is not required to determine the information regarding the identification of the user, and a reply to the e-mail can be sent to the user without requiring input of the mail address of the user at the receiving apparatus, the reply being sent from the receiving apparatus," as recited in base claim 6 and similarly recited in base claim 31; or "a controller configured to set the information regarding the identification of the user and the mail address of the user selected by the panel section, into the mail message of the e-mail to which the image data is attached, whereby opening, at the receiving apparatus, of the attached image data is not required to determine the information regarding the identification of the user, and a reply to the e-mail is returned to the mail address of the user," as recited in base claim 11 and similarly recited in base claim 33.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas D. Lee whose telephone number is (703) 305-4870. The examiner can normally be reached on Monday-Friday (7:30-5:00), alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K. Moore can be reached on (703) 308-7452. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2624

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thomas D. Lee Primary Examiner Art Unit 2624

tdl November 26, 2004